
□ Backwashing for cross-flow-type microfiltration
membranes

L20 ANSWER 47 OF 121 HCA COPYRIGHT 2002 ACS

AN 109:172887 HCA

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SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 63126513	A2	19880530	JP 1986-269958	19861114
	JP 06102136	B4	19941214		

AB Solid particles deposited on the surface of cross-flow microfiltration membranes are removed by backwashing with pressurized air, mixing with recycle stream, and introducing into a bypass passage. The backwashing stream pressure is preferably larger than that of the feed fluid stream. Thus, an enzyme suspension was periodically pumped through cross-flow microfiltration membranes (av. pore diam. .apprx.0.45 .mu.m; made of cellulose triacetate) at 0.5 kg/cm² pressure for 5 min, and the spent membranes were then backwashed with pressurized air at .gtoreq.1 kg/cm² for 5 s to remove deposited solid particles. The membrane service life was significantly extended.